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(54) USER INTERFACE SYSTEM

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(57) ABSTRACT

The user interface system of one embodiment of the invention includes a sheet that defines a surface on one side and at least partially defines a first cavity and a second cavity on an opposite side; a fluid network coupled to the first and second cavities; a displacement device coupled to the fluid network that displaces fluid within the fluid network and expands both the first and second cavities concurrently, thereby deforming a first and a second particular region of the surface; and a touch sensor coupled to the sheet and adapted to sense a user touch proximate the first and second particular regions of the surface. The user interface system of another embodiment of the invention includes a displacement device coupled to the fluid network that displaces fluid within the fluid network and selectively expands one of the first and second cavities.

